



Richmond

US Route 2, Bridge 32

Project Location: Bridge 32 is 4.2 miles East of the junction of US Route 2 and VT Route 117. The existing structure spans over Snipe Island Brook and is located 50' East of Snipe Ireland Road.

Project Schedule

Project Advertised

October, 2016

Begin Pre-Closure Activities

April/May 2016

Temporary Lane Closures

2 weeks before/after
bridge closure

Bridge Closure

Summer 2017/during
school break

Project Completion

End of Summer, 2017

The Town of Richmond, US 2, Bridge 32 project will consist of removal and replacement of the existing bridge, including approach work.

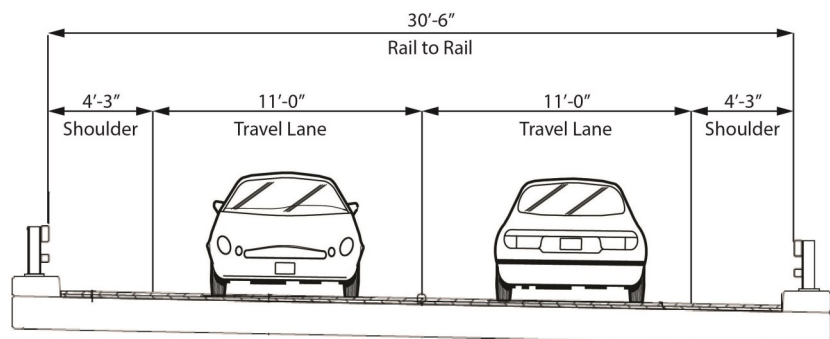
Bridge 32 is a single span concrete T-beam structure built in 1929. It has a curb-to-curb width of 27.5', and has a bridge span of 21'. The existing structure is considered structurally deficient. The deck is in poor condition, and there are concerns with full depth holes appearing in the near future. The superstructure and substructure are in fair condition. The existing bridge has scour and does not have adequate hydraulic capacity. The shoulder width and banking geometry is substandard.

VTrans evaluated alternatives for bridge replacement of Bridge 32 in an engineering study completed in May 2014. The study addressed the proposed design criteria for bridge and roadway alignment, horizontal and vertical geometries, hydraulic adequacy, historical and archaeological resources, and environmental impacts. Several alternatives were considered including no action, rehabilitation, superstructure replacement, and full bridge replacement. Due to the current condition of the bridge, hydraulic inadequacies, and the issues regarding roadway geometries, the full bridge replacement option was chosen.

The existing bridge will be replaced with a new precast concrete rigid frame structure. It will be slightly longer and 2-1/2 feet wider. Its rail to rail width of 33.5' will also meet the current design standards. Shoulder width and banking geometry will be improved in order to meet current standards. The opening to the brook channel will be wider, meeting current hydraulic standards.



US 2 Bridge 32 view at Snipe Ireland Road



Traffic control on this project will involve closing the bridge for 4 weeks while maintaining traffic on an offsite detour. I-89 is close to the project and will be used as a detour for vehicles. Bicycle and pedestrians will use Cochran Road as a detour route. A detour is cheaper, quicker for construction, safer, and has fewer impacts than other traffic maintenance alternatives. Closing the road is the safest option for both the traveling public and the contractor.

Target Construction Schedule: Summer 2017

Contractor: TBD

Estimate: \$1,309,573

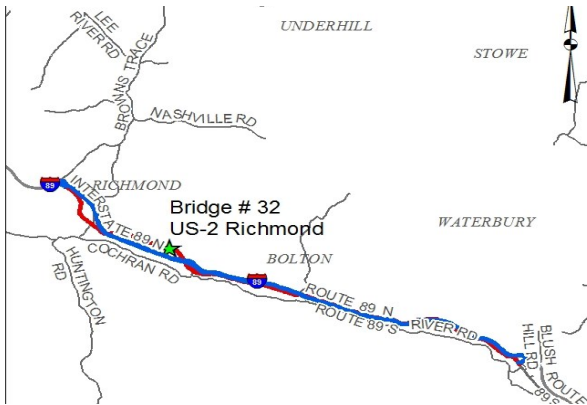
VTrans Project Manager: Rob Young,

Email: rob.young@vermont.gov

VTrans Resident Engineer: Not yet assigned

Public Outreach Coordinator: Jill Barrett (802) 272-1248

Project Location



Project Detour

MOTORISTS:

The posted state detour will be I-89 which runs parallel to US 2 for about 15 miles between Exits 10 (Waterbury) and 11 (Richmond). There will be no extra mileage for through travelers. Local traffic will use I-89 or may seek other routes depending on origin and destination.

BICYCLISTS & PEDESTRIANS:

The posted route will be Cochran Road which will be accessed either in Richmond Center by the Round House Church or in Jonesville.



Deteriorating Superstructure



Scoured/Deteriorating Substructure



Deck holes